

Appendix G
Sample Inspection Report Checklist

INSPECTION RECORD OF WIRE ROPE AND ACCESSORIES
GATE-LIFTING DEVICES

1 IDENTIFICATION DATA

1.1 Project _____

1.2 Gate Type _____

1.3 Gate Location _____

1.4 Gate Number _____

1.5 Date _____

1.6 Inspector _____

2 CONDITION OF ROPE

2.1 Which Rope(s)? _____

2.2 Diameter Reduction. *What is the rope's current diameter? (Under constant load & at the reference location, graph time vs reduction.)*

2.3 Stretch. *How much has the rope stretched? (Under constant load, graph time vs stretch.)* _____

2.4 Abrasion. *How much (percent) reduction in outer wire diameter?* _____

2.5 Broken Wires. *Maximum number per lay and per strand?* _____

2.6 Corrosion. *Describe any corrosion, and give locations.* _____

2.7 Other Damage. *Is there any evidence of peening, scrubbing, kinks, bird caging, or any other damage occurring in a localized area, and if so, describe?* _____

2.8 Potential Over-Stressing. *Have any incidents occurred which could potentially have stressed the rope above its design load, describe?* _____

3 ROPE FITTINGS

3.1 Which Fittings? _____

3.2. Wear. *Describe any wear.* _____

3.3 Cracks. *Are there any cracks?* _____

3.4 Broken Wires. *Has more than one wire failed adjacent to any fitting?* _____

4 SHEAVES, PULLEYS, & DRUMS

4.1 Which one(s)? _____

4.2 Groove Diameters. *Are the groove diameters within tolerance? (Measure with "go/no-go" gauges.)* _____

4.3 Wear Patterns. *Describe any wear patterns in the grooves.* _____

4.4 Other. *Are there any broken flanges, wobble in the bearings, broken flanges, flat spots, or off center groove wear?* _____

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Notes: (1) Reference: Chapter 7 of EM 1110-2-3200. (2) The condition of the wire rope and its accessories should be assessed both in absolute terms and in comparison to previous inspections. (3) Attach sketches or additional sheets if more room is needed.